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SEP 06 2006

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Confirmation No. 8945

Application No.: 10/655,985 )  
Filing Date: September 5, 2003 )  
Applicant(s): Guoming G. Zhu et al. )  
Group Art Unit: 2863 )  
Examiner: Michael P. Nghiem )  
Title: Methods Of Diagnosing Open- )  
Secondary Winding Of An )  
Ignition Coil Using The )  
Ionization Current Signal )  
Attorney Docket: 46107-0091 )

RESPONSE

Commissioner For Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450

Dear Sir:

This is in response to the Office Action mailed June 6, 2006, for which the three-month shortened statutory period for response is set to expire on September 6, 2006. Kindly amend the above-identified application as follows and consider the remarks set forth below:

A Listing of the Claims begin on page 2 of this paper.

Remarks begin on page 7 of this paper.

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**DICKINSON  
WRIGHT** PLLC  
COUNSELLORS AT LAW

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**FACSIMILE  
TRANSMITTAL SHEET**

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<http://www.dickinsonwright.com>

**BEST AVAILABLE COPY**CONFIRMATION ☒

<b>TO:</b> Central Fax Delivery	<b>COMPANY:</b> U.S. PATENT & TRADEMARK OFFICE
<b>FAX NUMBER:</b> (571) 273-8300	<b>PHONE NUMBER:</b> (866) 217-9197

**From:** Michael A. Schaldenbrand**Date:** September 6, 2006**Total Number of Pages Including Cover Sheet:** 12**Message:**

**RE:** Application No.: 10/655,985 - Filing Date: September 5, 2003  
 Applicant(s): Guoming G. Zhu et al.  
 Group Art Unit: 2863  
 Examiner: Michael P. Nghiem  
 Title: Methods Of Diagnosing Open-Secondary Winding Of An Ignition Coil Using The  
 Ionization Current Signal  
 Attorney Docket: 46107-0091  
 Reply To Final Office Action Dated June 6, 2006

Transmitted herewith are the following documents:

- 1) USPTO Transmittal Form (including Certificate of Facsimile Transmission) (1 page);
- 2) Fee Transmittal For FY 2006 (1 page);
- 3) Amendment and Response (9 pages).

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If you have not received the total number of pages, please call the facsimile department at (248) 646-4300. *Thank you.*

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<b>Client Name:</b>	<b>OFFICE CODE</b>
<b>Client/Matter Number:</b> 46107-0091	<b>Matter Name:</b>
<b>Attorney Number:</b> [1139]	<b>Attorney Initials:</b> MAS
<b>Secretary/Ext.:</b> Rainie Mills/7388	<b>No. of Pages:</b> 12
	<b>Amount:</b>

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PTO/SB/21 (09-04)

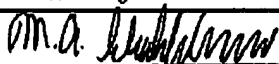
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U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

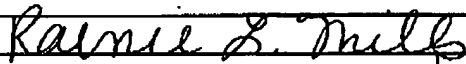
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<b>TRANSMITTAL FORM</b>  (to be used for all correspondence after initial filing)	Application Number	10/655,985
	Filing Date	September 5, 2003
	First Named Inventor	Guoming G. Zhu et al.
	Art Unit	2863
	Examiner Name	Michael P. Nghiem
Total Number of Pages in This Submission	Attorney Docket Number 46107-0091	

ENCLOSURES (Check all that apply)		
<input checked="" type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input checked="" type="checkbox"/> Amendment / Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Response to Missing Parts/ Incomplete Application <input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____ <input type="checkbox"/> Landscape Table on CD	<input type="checkbox"/> After Allowance Communication to TC <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input type="checkbox"/> Other Enclosure(s) (please identify below):
Remarks		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT			
Firm Name	Dickinson Wright PLLC		
Signature			
Printed name	Michael A. Schaldenbrand		
Date	9/6/2006	Reg. No.	47,923

CERTIFICATE OF TRANSMISSION/MAILING			
I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the			
Signature			
Typed or printed name	Rainie L. Mills	Date	9/6/06

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818).

# FEE TRANSMITTAL for FY 2006

☐ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$) \$0.00

## Complete if Known

Application Number 10/655,985  
 Filing Date September 5, 2003  
 First Named Inventor Guoming G. Zhu et al.  
 Examiner Name Michael P. Nghiem  
 Art Unit 2863  
 Attorney Docket No. 46107-0091

## METHOD OF PAYMENT (check all that apply)

☐ Check ☐ Credit Card ☐ Money Order ☒ None ☐ Other (please identify): \_\_\_\_\_  
☒ Deposit Deposit Account Number: 04-1061 Deposit Account Name: Dickinson Wright PLLC

For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)

☐ Charge fee(s) indicated below ☐ Charge fee(s) indicated below, except for the filing fee  
☒ Charge any additional fee(s) or any underpayments of fee(s) under 37 CFR 1.16 and 1.17 ☐ Credit any overpayments

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## FEE CALCULATION (All the fees below are due upon filing or may be subject to a surcharge.)

## 1. BASIC FILING, SEARCH, AND EXAMINATION FEES

Application Type	FILING FEES		SEARCH FEES		EXAMINATION FEES		Fees Paid (\$)
	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	
Utility	300	150	500	250	200	100	
Design	200	100	100	50	130	65	
Plant	200	100	300	150	160	80	
Reissue	300	150	500	250	600	300	
Provisional	200	100	0	0	0	0	

## 2. EXCESS CLAIM FEES

Fee Description	Fee (\$)	Small Entity Fee (\$)
Each claim over 20 (including Reissues)	50	25
Each independent claim over 3 (including Reissues)	200	100
Multiple dependent claims	360	180

Total Claims Extra Claims Fee (\$)

- 20 or HP = x \$50.00 = \$0.00

HP = highest number of total claims paid for, if greater than 20.

Indep. Claims Extra Claims Fee (\$)

- 3 or HP = x \$200.00 = \$0.00

HP = highest number of independent claims paid for, if greater than 3.

## 3. APPLICATION SIZE FEE

If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listing under 37 CFR 1.52(e)), the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.18(s).

Total Sheets Extra Sheets Number of each additional 50 or fraction thereof Fee (\$)

- 100 = 0 / 50 0 (round up to a whole) x \$250.00 = \$0.00

Fee Paid (\$)

## 4. OTHER FEE(S)

Non-English specification, \$130 fee (no small entity discount)

Other (e.g., late filing surcharge):

## SUBMITTED BY

Signature *Michael A. Schaldenbrand* Registration No. 47,923 Telephone 248 433-7570  
 Name (Print/Type) Michael A. Schaldenbrand Date 9/6/2006

This collection of information is required by 37 CFR 1.136. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22312-1450.

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